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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/619,114	07/14/2003	Yi-Ming Sheu	TS02-1050	6852	
7590 05/17/2004		EXAM	EXAMINER		
STEPHEN B 28 DAVIS AV	. ACKERMAN		BREWSTER,	BREWSTER, WILLIAM M	
	SIE, NY 12603		. ART UNIT	PAPER NUMBER	
			2823		
1)1		*	DATE MAILED: 05/17/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

√.			
	Application N .	Applicant(s)	
Office Action Commence	10/619,114	SHEU ET AL.	
Office Action Summary	Examin r	Art Unit	_
	William M. Brewster	2823	
The MAILING DATE f this communication app Period f r Reply	ears n the cover sheet with the c	rrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).	
Status	* * * * * * * * * * * * * * * * * * * *	•	
1) Responsive to communication(s) filed on 22 O	ctober 2003.		
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.	•	
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is	
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.	
Disposition of Claims	,		
 4) ☐ Claim(s) 1-36 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 			
5) Claim(s) is/are allowed.	Withom Consideration.		
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.		000	
8) Claim(s) 1-36 are subject to restriction and/or	election requirement.		
Application Papers			
<u> </u>			
9)☐ The specification is objected to by the Examine 10)☐ The drawing(s) filed on is/are: a)☐ acce		Evaminer	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct	• • •		
11) The oath or declaration is objected to by the Ex		• •	
D			
Priority under 35 U.S.C. § 119		£ .	
12) ☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).	-
a) All b) Some * c) None of:			
1. Certified copies of the priority documents		a a Nia	
2. Certified copies of the priority documents			
 Copies of the certified copies of the prior application from the International Bureau 	•	d in this National Stage	
* See the attached detailed Office action for a list	, , , ,	d	
222 m2 small detailed office determined a flot	The second deploy for footive		
Attachment(s)	•		
1) Notice of References Cited (PTO-892)	4) Interview Summary		
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail Da	ite atent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:	and the same of th	

Application/Control Number: 10/619,114

Art Unit: 2823

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-25, drawn to formation of isolation by grooved and refilled with deposited dielectric material, classified in class 438, subclass 424.
- II. Claims 26-36, drawn to device isolation with dielectric in groove, classified in class 257, subclass 510.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case claim 1, lines 9-14, steps d-f does is not required for claim 26, lines 7-9, step b, which can be accomplished by an implant orthogonal to the substrate at the corners of the STI.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William M. Brewster whose telephone number is 571-272-1854. The examiner can normally be reached on Full Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on 571-272-1855. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

13 May 2004

William M. Brenntes

WB